Finding JPL Historical Information

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Library, Archives, and Records Section

This is Charlene Nichols, and she's been with the JPL Library and Archives for a little over 2 years. Charlene has done a lot of work on digitizing archival materials and making more information available on the web. I'm Julie Cooper, and I've been an archivist here at JPL for more than 17 years.

During this presentation, we'll be showing you the kinds of resources that are available in the JPL Archives, and telling you which ones might be most helpful to you, depending on the topic of your research. We help a lot of people who are doing what you might call "serious" research about JPL missions or people for books, documentaries, and we help internal customers find documents, photos, and more. There is a lot of information available to anyone who is curious about the history of JPL.

People and Organizations

Missions and Projects

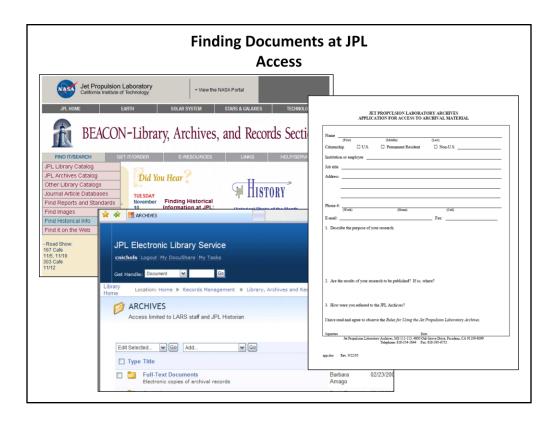
Buildings and Facilities

Multimedia

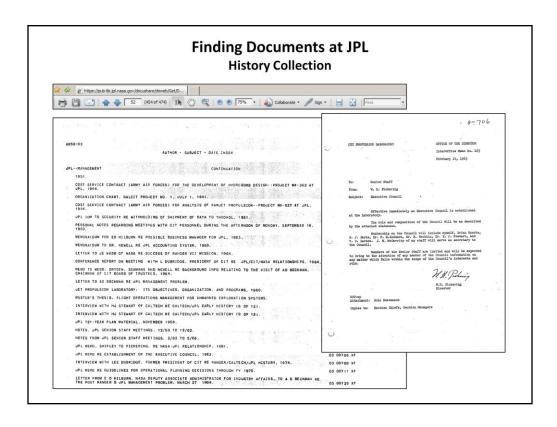
We've divided this talk into four of the most common research topics. The new exhibit in the JPL Library also covers these four categories.

Finding Documents at JPL

Lets start with finding documents, since this is a common resource for most research topics.



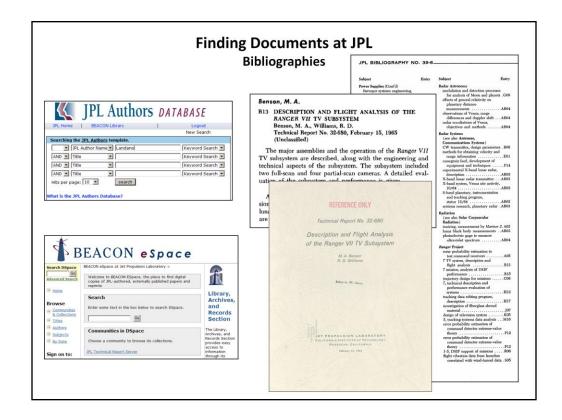
We'll be talking about a wide variety of resources today, both finding aids and the actual records, and most of them can be found through the online catalog. Some are accessible immediately through a hyperlink to a document or by browsing or searching our internal DocuShare library. Other resources are available only as hard copies and we provide access to those. The reference desk staff works closely with the Archives and they are usually your first contact for any information request. They will forward requests to an archivist as needed.



The History Collection is group of documents collected by the JPL Historian back in the late 1960s and early 70s, when he was writing a history of the Ranger project. General JPL History, Surveyor, the early Mariner missions, the DSN, and the History of Astronautics are some of the other subjects you'll find in the History Collection.

There are 3 versions of the printed index, which are now digitized – subject (which you see here – is used most often by researchers), a date index, and the master index, where documents are arranged by call number. You can find all three of them in our online catalog, and there is a link on the handout.

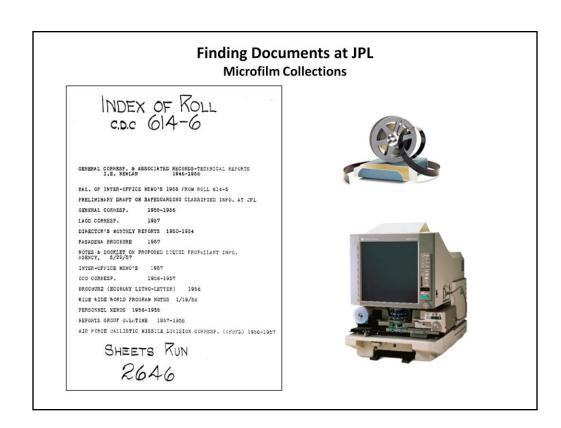
About 1/3 to ½ of the History Collection documents are in our online catalog. Since you won't find them all in a catalog search, we recommend you also do an index search or browse. The indexes have been OCR'd so you can use the Find function in Acrobat Reader, but you might want to browse as well. Our advice is the same for many of the older indexes and finding aids – the OCR process wasn't perfect, because there may have been many steps in the process – typing, printing, microfilming, scanning – and the text has degraded.



If you're looking for reports and articles published from 1938-1992, you might want to try Publications of the Jet Propulsion Laboratory, also known as the JPL Bibliography. They're public, and the PDFs are in the online catalog and in our public DocuShare library. They include citations, some abstracts, and up to 1979, a subject index is included. They've been OCR'd, so you can also search the full text.

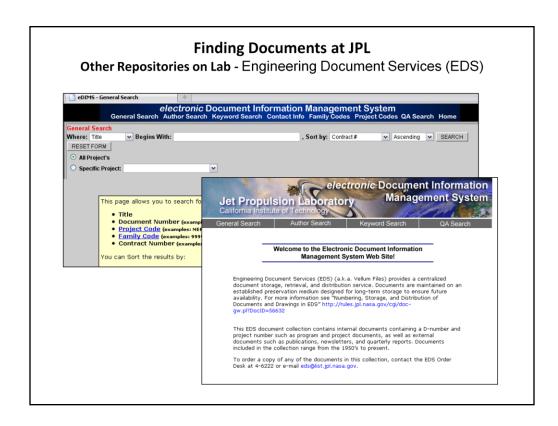
JAD is the online replacement for this information. It starts in 1990, captures full citation information for JPL authors' primarily published works, and includes links to the articles. It is updated annually.

Beacon E space (the Technical Report Server) captures the more informal works of JPL authors including preprints and conference papers from 1992 to the present

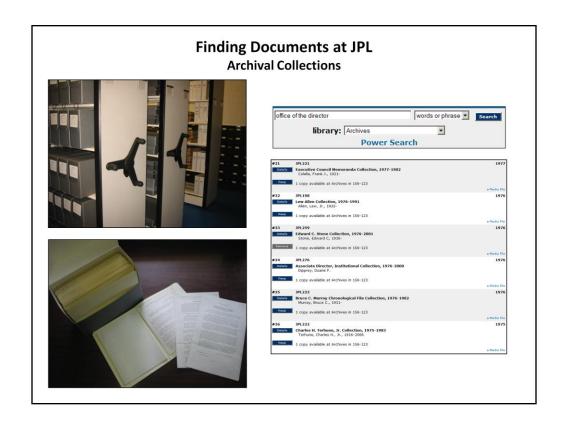


The Archives has a lot of hard copy documents, but some of the reports and other records created at JPL, especially from the 1940s to the 1960s only exist now on microfilm. We have more than 1,000 rolls of microfilm, and a large set of indexes that have been digitized. Most are in an internal directory, but we're gradually moving them to our public DocuShare library.

There is a file called MF_description.doc that lists roll numbers and the subjects covered by them. For example, the rolls with a 220 prefix are Viking, 373 covers the wind tunnels, and 614 is the Central File (this is from the time when JPL was small enough that most of the administrative and project records were kept in one room. These files were all microfilmed at one time.) You can browse the indexes, and keyword searches work to some extent.

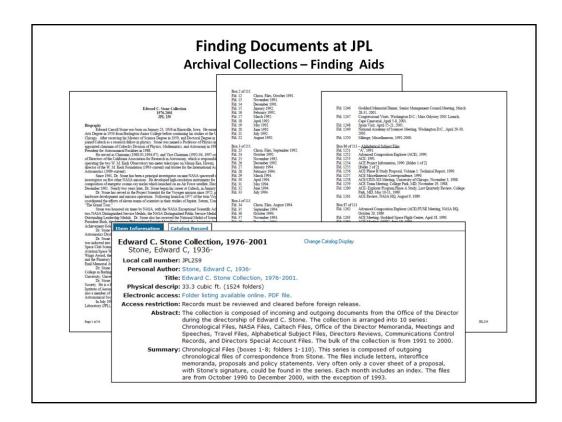


The Archives and Engineering Document Services (or EDS) work together to provide documents to JPLers and to outside researchers. EDS collects numbered JPL reports and documents.



Archival collections have been created and collected by individuals, projects, or offices. They include reports, documents, correspondence, subject files, notes, and other types of records that may not make it into EDS, but they are valuable in preserving the history of a project or a person's work.

In our online catalog, you can search for project names, people, or a phrase like "Office of the Director" and you'll come up with a hit list like this. (You can limit the search to "Archives" to avoid seeing library materials.) Each catalog record describes a group of records. The call number or collection number will be in this format (JPL123)



Here's an example of a catalog record for a collection. The "Electronic Access" link takes you to a PDF of the finding aid. (You need to allow pop-ups in order for this to work.) For many of the collections, the finding aid includes a narrative description at the beginning, then a detailed folder listing. Some of the collections are described to the box level, or selected items may be described in more detail.

If you're interested in seeing a document from one of these collections, contact the reference desk and give them the collection number (JPL259) and folder number, or box number.



The Archives' finding aids are all available to the public, so we keep them in the public DocuShare library. Here are some examples of finding aids that are commonly used.

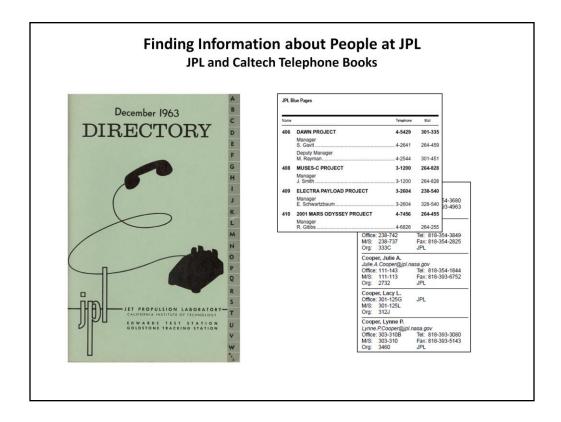
Bibliographies
History Collection Index
Lab-Oratory, an early JPL employee newspaper
Photo index, without images
Processed collections finding aids
Microfilm Index

They have been OCR'd, so you can search the full text of all these documents using the DocuShare search function. Project names, key words, last names of authors, even document numbers.

No login needed for pub-lib. JPL user name and password needed for bravo-lib.

Finding Information about People and Organizations at JPL

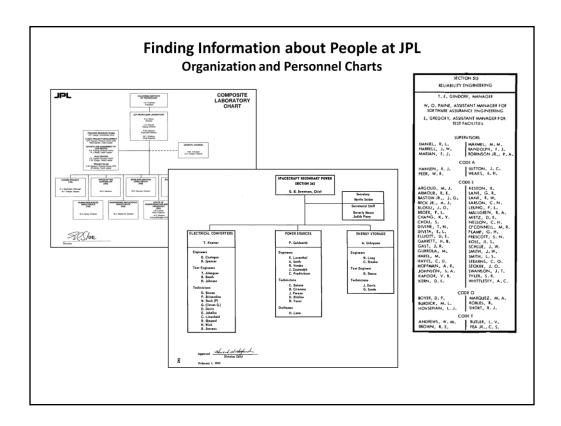
Lets move on to the four main research topics – we'll start with people and organizations. We occasionally get requests from the families of former JPLers wanting to know more about what that person did while they were here at JPL, or the Universe staff may ask for information to use in writing an obituary. We've also had international requests about former JPLers such as Dr. Pickering, who was from New Zealand and Dr. Tsien, who recently died in China.



Our first stop is usually the telephone book collection. We have both JPL and Caltech phone books, which tell us when the person worked at JPL and what organization they belonged to. You can trace a person's career by looking at a series of telephone books, and if they ever reached the level of section manager or deputy section manager (or higher) the phone book will indicate that.

What we call the "blue pages" of the phone books give us the organization names and numbers, which can change often over a period of years.

Some of the phone books have been digitized, and the rest of the collection will eventually be scanned. They are JPL internal.

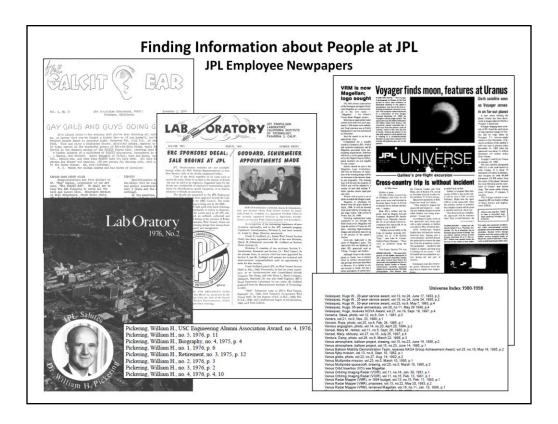


Phone books and organization charts work together. Look up a name to see what organization they were in, then look at org charts to see who they worked with and how that organization was related to others around it.

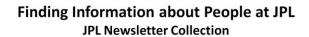
Organization charts go down to the level of section manager or group leader. Personnel charts show everyone in an organization, and sometimes indicate if their job was in administration, engineering, technical – shown by headings or codes.

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June 22-26, 1	981				Bruce Mun		Mnay	
Г					Director, Je	et Propulsio	ion Laboratory	
Office of the D	JPL Organizational Changes							
June 22, at 1:30 p.m. Reports will be given on cations and Applied Teties, with Mr. Geoffrey	This Week Date	Old #	Old Name	New #	New Name	Comment	This Week Excerpt	
Director's Report and Director's Report and Monday, July 29, at 1:3 101. Reports will be a instruments, with Mr. R	10/27/2003				Information Technologies Program Office	Formed	CORRECTION Office of the Chief Technologies (1309) The Chief Technologies, Erisk Antoneson, announces to Collowing changes effective October 5: Information Technologies Program Office (1323) is formed with Rich Doyle appointed Manager, as an additional duty.	
	10/27/2003			1322	Power, Propulsion, Robotics and Avionics Technologies Program Office	formed	CORRECTION Office of the Chief Technologist (1360) The Chief Technologist, Erik Antonsson, announces following changes effective October 6: Power, Propulsion, Robotics and Avionics Technologies Program Of (1322) is formed with Satish Khanna appointed Manager, as an additional duly	
Laboratory Safety Co appointed to serve as ifety Committee, repla- enting the Applied Med	10/27/2003			1321	Sensors and Instruments Technologies Program Office	Formed	CORRECTION Office of the Chief Technologist (1309) The Chief Technologist, Erik Antonsson, announces following changes effective October 6: Sensors and Instruments Technologies Program Office (1321) is fort Timothy Krabach appointed Manager, as an additional duty.	
Organization Cha	0				NO			
Group Name Changes. The M Engineering Section (513) Group name changes —				:10	12:25 12:28 12:4		12:46 1:01	
From: Natural and Mec quirements Grou To: ThermaI/Dynamic	P		1	:10	1:25 1:2 1:28 1:4	18	1:46 *2:01	

We've created an Excel file that tracks changes in organization names and numbers, from 1947 to 2003, so far. It supplements the org charts, and provides information about personnel appointments and promotions. It's based on This Week, which is also available in hard copy from 1967 to the present. This Week from 1980-2003 has been converted to PDF and you can find it in the online catalog and in our internal DocuShare library.



Before Universe, there was Lab-Oratory and Galcit-Ear. You can see the date ranges in the handout, along with links to the digitized collections. The indexes are public, and you can search or browse for names and subject terms. The actual newspapers are JPL internal.





Martians of the Month

Every month, the Mars Exploration Program Office at JPL honors an employee who has made a significant contribution to the work of sending spacecraft to Mars. Listed below are the "Martians of the Month" to date.



April: Jesse Wright As chief designer and architect of the Mars Pathfinder Ground



Surveyor (MGS) Attitude and Articulation Subsystem (AACS). George noticed a potential instability in the spacecraft, which could cause either a mission loss or potential instrument damage from Sun exposure. He worked with the

June:

successful imple-

mentation of the

Mars Global

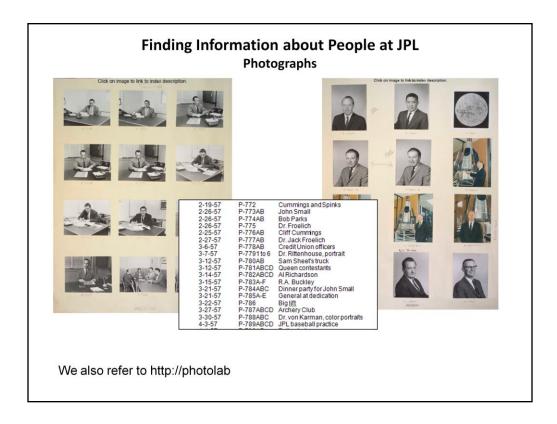


August: David Gruel As a member of the Mars Pathfinder AIM Integration and Test Team, David Gruel significantly

contributed toward on-time delivery of the AIM subsystem to ATLO. David devoted months to this effort, including many planning hours to ensure success of the flight-qualification thermal test of the AIM gear.

Letter From the Editor (cont'd)

There are about 97 titles in the JPL Newsletter Collection. You can search the catalog for a section or a subject area that you are interested in. These newsletters are not indexed.

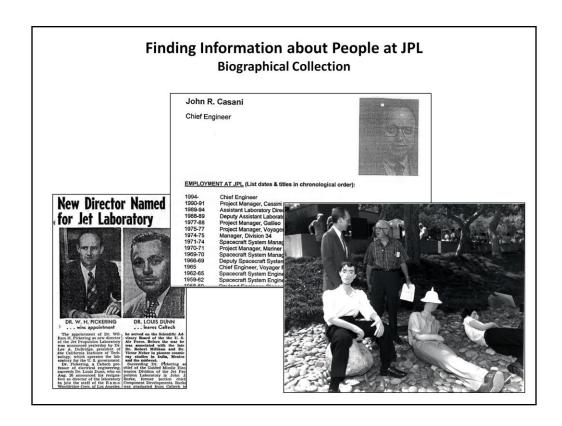


We have a collection of online photo albums, and I'll talk more about those later. They are JPL Internal and links are in the handout.

P numbered photo albums are the best place to find portraits, and names are most likely to be found in this index. In group shots, people usually aren't identified. Other albums are by section number, if you know what section a person was in. They include photos of the work that was being done, and sometime photos of people.

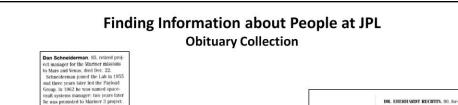
The indexes are OCR'd, but again, you may not get a hit on every name or keyword.

When using images of people, keep in mind privacy issues. There is also an Image Use Policy on the public web page.



We have a collection of biographical materials in the catalog. It gives a list of names for the people who have a file and includes a set of obituaries that have been converted to PDF. The list is public and the PDFs are JPL internal.

Here is a portion of John Casani's resume, a newspaper clipping about Dr. Pickering being named Director of the Lab, and a photo of Dr. Stone with Apollo Smith in 1991 with the mannequins posed like the famous 1936 photo in the Arroyo.



Dan Schneiderman. 85. retired project manager for the Martner missions to Mars and Venus. died Dec. 22. Schneiderman joned the Lab in 1935 and there years later let the Payload Group. In 1926, was sammed spacerard systems manager, it may ward let a manager and continued to manager the Martners through Martner Mars 71 (Martner 9). For his works out manager and continued to manager the Martners through Martner Mars 71 (Martner 9). For his works on Martner Mars 72 (Antievement Award in 1965 and the Distinguished Service Medal in 1972. He later managed PIPs Commercial Space Applications Office and retired in 1987. Schneiderman is survived by his wife, Estelle.



Abraham Jay 6-14-96 Abraham Jerome 5-27-09 Abrahamson Richard C. 1925-2001 Acosta Ivy 8-25-97 Adams Ernest 2-12-98 Adams Jane 2-13-02 Adams Lloyd 1-19-09 Adkins Audrey 5-30-02 Agey Kerri 12-8-04 Aicher Ethel 8-13-07 Ainsworth Diane 3-29-09 Alahuzos George 1-24-00 AldousErnest 9-13-03 Alexander Robert 10-26-05 Allbaugh Jimmie 11-20-99 Allen Ferdinand 8-29-07 Allen Queen 6-24-99 Alpaugh Clifford 7-15-98 Alper Mickey 10-11-01

Alten Richard 10-20-88



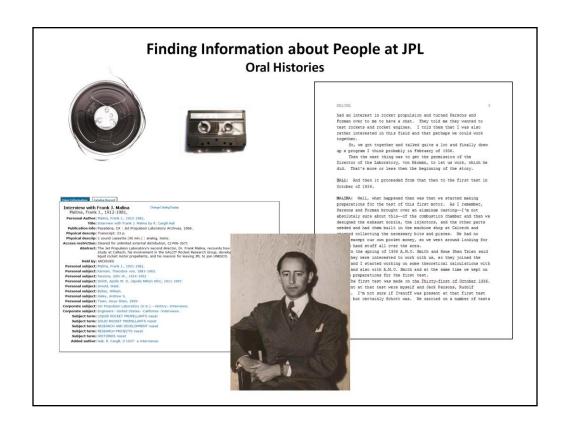
DBE. INJECTIVETY, 10. for-mer JPL, assistant luberatory circute for Tracking and Data Acquisition and a kep player in the development of the Deep Space Network, died April 14. Rochtine carned tool hasheber's (1946) and doctoral (1950) degrees in electri-col engineering from Caltech. He joined JPL in 1948 and served as chief ar-chitect and director of the Deep Space Network from when the Laboratory joined NASA in 1950 and the retired to become the director of the Deep Space Network from when the Laboratory joined NASA in 1950 and the retired to become the director of the Department of the Company of the Percharder Company as its chief engineer. Four years later, he became chief executive efficer of the Aerospace Corp. a federally funded research and development carlier sponsored by the Linted States Air Force that supports long-term planning and the immedi-ate needs of the nation's military and recommissioner sponsored to the companies of space programs.

are needs of the nations military and reconnaissance space programs. Rechtin is survived by his wife, Deedee; daughters Andrea Rechtin. Nina Meierding, Julie Rechtin and Erica Bauermeister: son Mark; four grand-children; and sister Joan Lincoln.

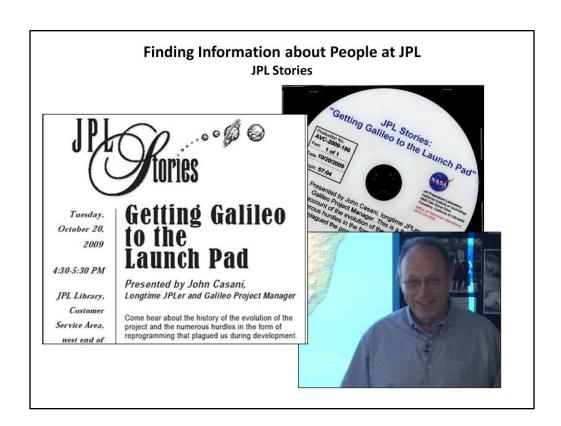
Eberhardt Rechtin e: 90274 Palos Verdes Peninsula, Born: 16 Jan 1926 Died: 14 Apr 2006

Here are samples of obituaries and the name list. The clippings have been captured from the Universe and Lab-Oratory.

The obituary collection covers 1996-2009 and includes about 800 records, and we are continuing to add to it. They are browseable in our internal DocuShare library, and the list is hyperlinked to the individual PDFs.



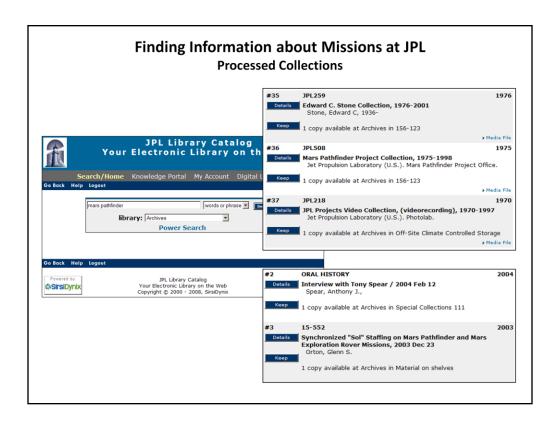
The oral histories are available in the library as a special collection, and are in the catalog. If you do a power search and select "Oral History" as the type, you'll see 87 interviews that are in the catalog so far. You can also specify subject terms or put an interviewee name as author. Some of the transcripts are JPL Internal, and others have been cleared for unlimited release.



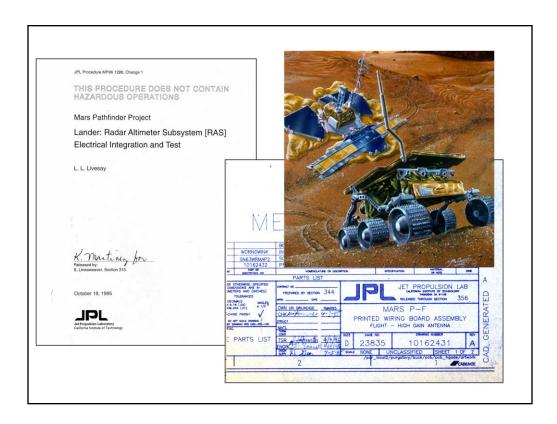
We have a number of JPL Stories produced by the Library, where JPLers tell their own stories about working at JPL. The BEACON web page has a list of past stories, and if you missed one we may have it on DVD.

They are JPL internal

Finding Information about JPL Missions and Projects



Processed collections, as I mentioned, have been collected by individuals and project offices. A search for Mars Pathfinder comes up with not only Pathfinder collections, but other collections that may have just a few Pathfinder records and includes the subject term in the catalog record. Other items will come up, like oral history interviews, and single documents (15-552).



Here are examples of items from a processed collection.

History Collection						
A658-03	PAGE 96					
CORPORAL	CONTINUATION					
UPL COMBINED BIMONTHLY SUMMARY 21 #93	3-378	1947				
JPL COMBINED BIMONTHLY SUMMARY 18 Details	Corporal E-1 ORDCIT round 31 : firing schedule, 1947 May					
JPL COMBINED BIMONTHLY SUMMARY 19	corporare 1 oktobri rodina 51 : ililing schedule, 15 is may					
RESEARCH PROGRAM FOR THE SECOND T 8-20-44.	1 copy available at Archives in 156-123					
THE SECRETS OF WHITE SANDSIN PO Keep	T copy distinct at Archives in 150 125	▶ URL				
THE CORPORAL A SURFACE-TO-SURFAC		PORL				
CORPORAL E-1 ROUND 1 (ORDCIT ROUND 31) FIRING	SCHEDULE FOR X-DAY, 1947. 03 00378 XF					
OPERATIONS INSTRUCTIONS, ROUND 4 (ORDCIT ROUND	- TO FIGURE					
DEVELOPMENT OF THE CORPORAL: THE EMBRYO OF THE	ARMY MISSILE PROGRAMABMA HISTORICAL MONOGRAPH 4. 03 00422 XS					
OPERATOR'S MANUAL FOR THE CORPORAL MISSILE.	03 00456 X5					
AMERICA'S FIRST LONG RANGE MISSILE AND SPACE EX PROPULSION LABORATORY, 1943-1946.	PLORATION PROGRAM: THE ORDCIT PROJECT OF THE JET 03 00491 BF					
JPL MOETHLY SUMMARIES, 4-1 TO 4-35, 1944-1947.	03 00564 XS					
SCALE-MODEL FLIGHT TESTS OF A PROPOSED RTV-G-2						
INTERVIEW WITH HI STEWART OF CALTECH RE CALTEC	Item Information Catalog Record					
INTERVIEW WITH HJ STEWART OF CALTECH RE CALTEC	Corporal E-1 Okbert Todila 31 . Illing Schedule, 1947 May					
INTERVIEW WITH HIJ STEWART OF CALTECH RE CALTEC	H _V Change Catalog Display					
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RESEARCH PROPOSALS FROM JPL. 1943-1952. CONCERN	Electronic access: JPL internal access only http://library/volume1/HistoryCollection/3-					
GALCIT NO. ONE CONFERENCE NOTES. 4/44 TO 7/46. AMERICA'S FIRST LONG-RANGE MISSILE AND SPACE-E.	378_A1b.pdf					
PROPULSION LABORATORY, 1943-1946.	Series litte: (JPL History Collection ; 3-378)					
JPL REPORT ON TRIP TO REDSTONE ARSENAL, 1955.	Access restriction: Records must be reviewed before use and cleared before public release.					
ENVIRONMENTS IN THE CORPORAL MISSILE XSSM-4-17	Subject term: COPPORAL MISSILE paget					
THE DESIGN OF THE AXIAL-COOLED ROCKET FOR THE	Subject term: COKET FIRING nasat					
	Held by: ARCHIVES					

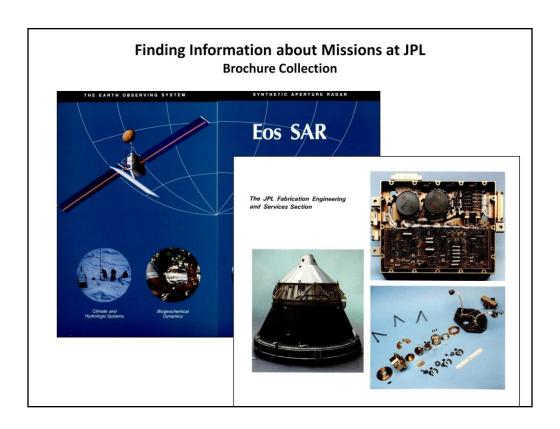
The History Collection covers early work on rockets and Army missiles, as well as the early NASA missions.

Here is a page of the HC index, and the same document as it appears in the catalog. This one happens to be available in PDF format – and it's JPL Internal.

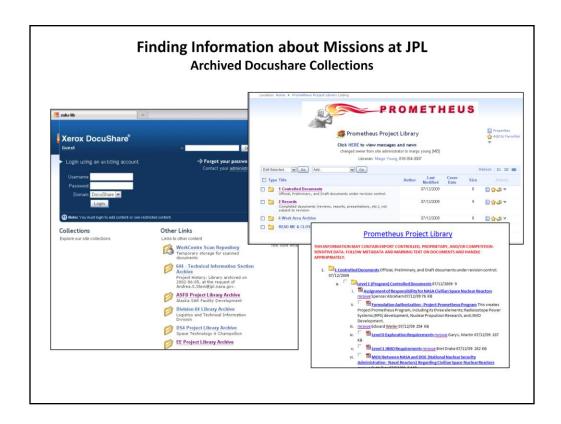
The Microfilm collections (614 Central File) also has a lot of records for the early rocket and missile work.

Mission Status Bulletins							
ssion st	atus bulletins subject	∑ Search					
	library: ALL	•					
	Power Search						
	subject "Mission Status Bulletins" searc	h found 48 titles.					
#41	Pages << 1 2 3 >> JPL NEWSLETTERS	1966					
Details	Lunar Orbiter Mission B Status Bulletin, 1966 Nov-Dec Langley Research Center			No.			
Keep	1 copy available at Archives in Special Collections 111						
F42	JPL NEWSLETTERS	RANGER B (RA-7)	STATUS BULLETIN	NUMBER 1			
Details	Lunar Orbiter Mission A Status Bulletin, 1966 Aug Langley Research Center	LIFT OFF 27 July 0932 (N)	EARTH	DATE/TIME 24 July 1200			
Keep	1 copy available at Archives in Special Collections 111	INJECTION 1002 (N)	ACQUIRED 1303-1333 (N) MIDCOURSE MANEUVER INITIATED 28 July 0132 (N)	REACQUIRED 0230-0300 (N) TERMINAL MANEUVER INITIATED 30 July 0529 (N)			
F43	JPL NEWSLETTERS	SUN	SUN BETWEEN				
Details	Lunar Orbiter first flight status bulletin, 1966 Jul 29 Langley Research Center	ACQUIRED 1035-1105 (N) ALL TIMES (PDT)	REACQUIRED 0202-0230 (N) IOMINAL (N) PREDICT	IMPACT 0629 (N)			
Keep	1 copy available at Archives in Special Collections 111						
		This initial issue of the bulletin as scheduled launch approaches	is to provide you with a status summa	ry of the Ranger B Mission			
P44 Details	JPL NEWSLETTERS Ranger C (Ranger 8) Status Bulletins, 1965 Feb Jet Propulsion Laboratory (U.S.)	The spacecraft arrived at the Eastern Test Range (ETR) on 21 June 1964. The initial Sustain Test					
Keep	1 copy available at Archives in Special Collections 111	to the launch site and mated to Flight Acceptance Composite Te	with satisfactory results. On 8 July the Atlas-Agena vehicle in preparation st). The Mission Readiness of the cor- was successfully established on 10	n, the spacecraft was moved on for the J-FACT (Joint			
145	JPL NEWSLETTERS	The spacecraft was then demotes	I from the launch vehicle and returned een 13 July and 17 July. All spaces	to at 100 c ato			
	Ranger D (RA-9) Status Bulletins, 1965 Feb - Mar						

Mission Status Bulletins were produced by many of the projects to provide updates near launch and encounters, and periodically during the lifetime of a mission.

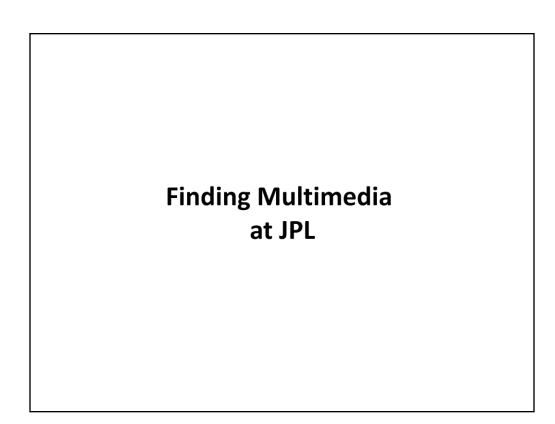


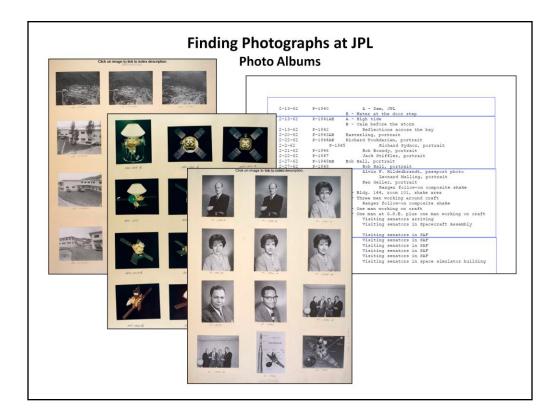
This is a collection of brochures that were used for outreach – to provide basic information to the public about missions and projects at JPL.



When many projects reach the end of their lifecycle, responsibility for their DocuShare libraries is turned over to a records management specialist.

Zulu-lib contains all the processed archived electronic libraries, or links to them. Finding aids have been prepared for a few closed inactive libraries, to assist researchers who want to find and reuse the information.





There is a set of large black photo albums that were created by the Photolab and have been digitized and converted to PDF files. They include photo album pages with an index at the end that gives the date filed, a photo number, and a brief description.

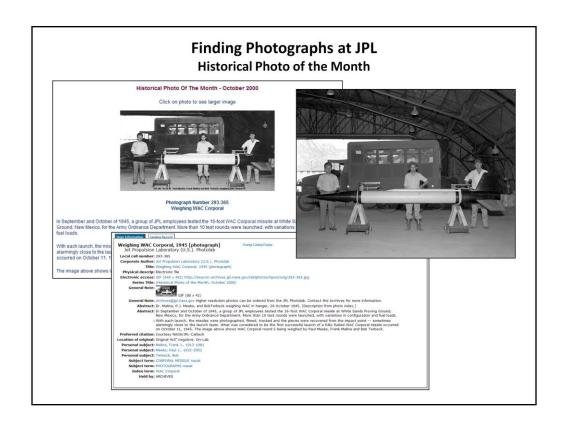
1936 to the mid 1970s

JPL site and buildings, people, social activities, missiles, parts, testing, spacecraft assembly, launch/encounter events, visitors, publicity...

Each photo number has a prefix (P, JB, or other letters, or a section number) then a sequential number. There is a guide to the photo collection, that tells you which subjects are covered by each set of albums. Section numbers may have changed over the years, so when ordering photos, use the prefix from the PDF file name.

Some of the PDF photo album pages have been linked to the indexes (blue outlines) so you can click on a photo album page to see the index for that page, and click on the index to jump back to the photos.

Indexes with photos are JPL Internal. Indexes without photos are publicly available.



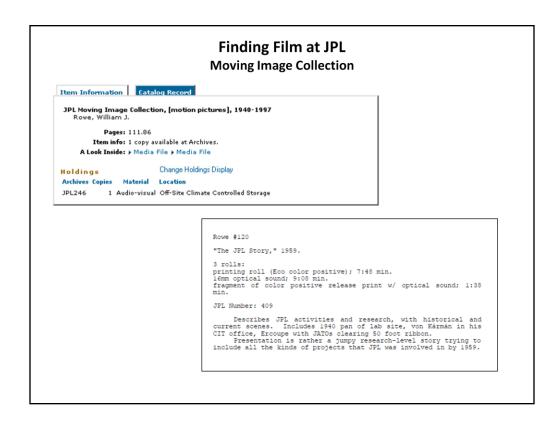
You may have seen the Historical Photo of the Month on the BEACON web page. Most of those photos are also in the online catalog, usually with links to high res images. They are all publicly available.

If you need higher quality images, you can order them from the Photo lab. The Archives can help with personal orders and outside requests.

Finding Photographs at JPL Scanned Photos Finding Photographs at JPL Scanned Photos Finding Photographs Finding

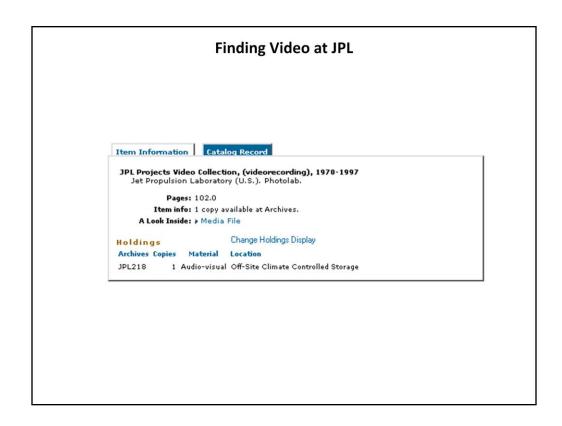
In the mid 1970s the Photolab stopped mounting proof prints in albums, so there are several large collections of photos that are not included in the online photo albums, such as P-numbered photos from 1975 – late 1990s, Galileo, and Voyager.

Call the reference desk for assistance in viewing and getting copies of these images.



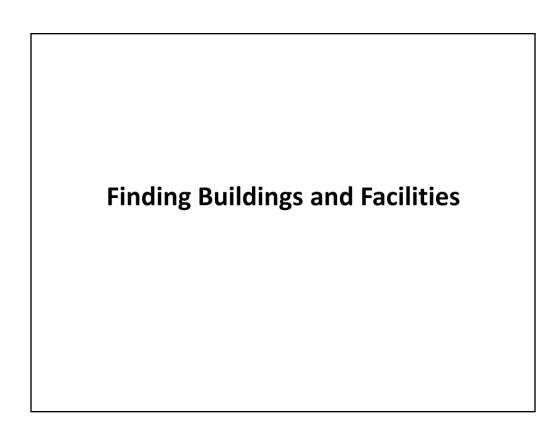
There are more than 1000 films in the Archives. Most are 16mm films, with descriptions in the online catalog. Our most frequent customer is the JPL Office of Communications and Education. They select films for digitization through an outside vendor, and use them to create films clips for the public web pages and documentaries about the history of JPL.

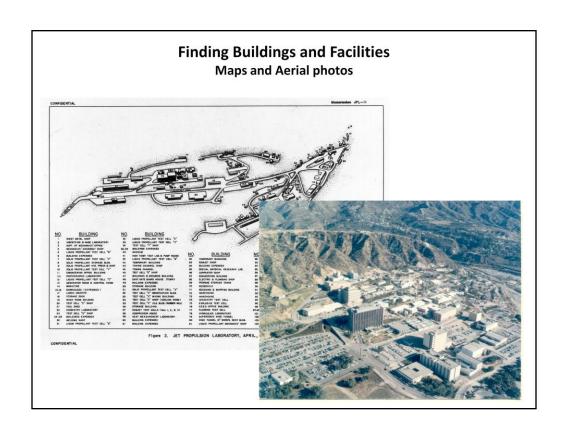
We have a flatbed film viewer, in case a customer needs to view films on site.



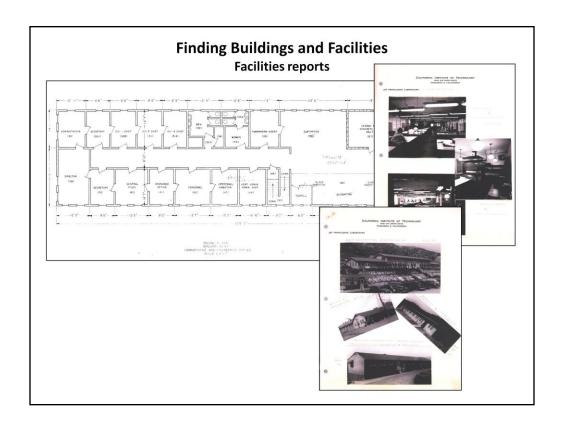
There are more than 2,400 videocassettes in this collection, in four different formats. They have been collected by the project offices and the JPL Photolab and document missions and instruments, meetings, training, scientific and engineering topics, and other events at JPL.

If a customer needs to view any older video formats, we can usually arrange for them to use equipment in Audiovisual Services.



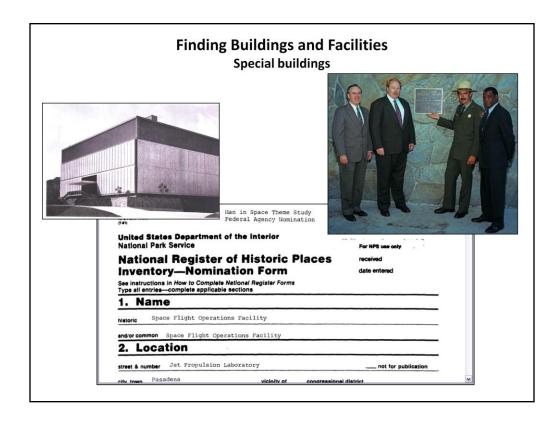


Maps can be found in most telephone books and in the photo collection (especially JB) and in the History Collection. The JB photos also include building construction and aerial photos.



The History Collection includes reports to the Army and NASA about JPL facilities. Central File microfilm also covers the Army era facilities, construction, and maintenance records.

On this floor plan you can see where the Director's office used to be in building 67. (Southwest corner)



Building 230 is one of the JPL facilities on the National Register of Historic Places, and we have documentation about these buildings, their history, dedication events, photos, ...

JPL archival records document the history and significance of the Laboratory, and the work that's been done here over the past 7 decades.



Other Repositories

Documents

Photos and Multimedia

Engineering Document Services

(JPL Internal)

JPL Authors Database

Beacon-Espace

JPL Multimedia

JPL Photo Lab (JPL Internal)

Great Images in NASA (GRIN)

JPL Video Catalog

NASA Image eXchange (NIX)

NASA/JPL Images in the Internet Archive

NASA Multimedia Gallery NASA Video Catalog (PDF)

NSSDC's Planetary Image Archives

Planetary Data System Planetary Photojournal

Regional Planetary Image Facility (RPIF)

Welcome to the Planets

Mission and Project Information

In the News (JPL Internal) JPL Missions public web page

JPL Press Kits JPL Press Releases JPL public web page NASA Historical Data Books **NASA Special Publications**

News Clips 2000-2009 (JPL Internal) Project reference list (JPL Internal) Project Support (JPL Internal)

Information about JPL history is available from sources outside the Archives, and outside of JPL and NASA.

Finding JPL Historical Information Suggested resources for specific types of requests **Price Information** **Contact Information** **Contact

Your handout provides links to these other sources, in each of the four categories, under the heading, "Other".

The handout is available as a PDF on the BEACON web site, and we'll be updating it periodically when we digitize finding aids or collections, or move materials into our DocuShare libraries.

Contact the Archives

Phone: Library/Archives Reference Desk 818-354-4200

Email: archives@jpl.nasa.gov
Web site: http://beacon.jpl.nasa.gov

Catalog: http://jpll.sirsi.net/uhtbin/cgisirsi/x/x/0/49

Contact the Archives for assistance in finding JPL Internal resources. Some materials can be reviewed and cleared for unlimited public release.